AMENDMENTS TO THE CLAIMS

oleic acid content of more than 40 wt% and a stearic acid content of more than 12 wt% based on the total fatty acid content of said oil, [[and]] wherein a maximum of 10 wt% of the fatty acid

(Currently amended) [[Plant]] Sunflower seeds that contain [[an]] oil having an

groups in the sn-2 position of the [[TAG]] triacylglycerol molecules are saturated fatty acids, and

wherein the oil has a linoleic acid content of less than 20 wt%.

2. (Currently amended) [[Plant]] <u>Sunflower</u> seeds according to claim 1, wherein the

seeds contain an oil that has in the sn-2 position of the [[TAG]] triacylglycerol molecules

constituting the oil a maximum of 8 wt% of saturated fatty acid groups.

3. (Currently amended) [[Plant]] <u>Sunflower</u> seeds according to claim 2, wherein the

seeds contain an oil that has in the sn-2 position of the [[TAG]] triacylglycerol molecules

constituting the oil a maximum of 5 wt% of saturated fatty acid groups.

4. (Currently amended) [[Plant]] Sunflower seeds according to claim 1, wherein the

oleic acid content is from 55 to 75 wt%.

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5. (Currently amended) [[Plant]] Sunflower seeds according to claim 1, wherein the

stearic acid content is from 15 to 50 wt%.

6. (Currently amended) [[Plant]] Sunflower seeds according to claim 5, wherein the

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stearic acid content is from 20 to 40 wt%.

7. (Currently amended) [[Plant]] Sunflower seeds according to claim 1, wherein the

oil has a total level of saturated fatty acids of at least 20 wt%.

8-9. (Canceled)

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- 10. (Withdrawn) Oil having an oleic acid content of more than 40 wt% and a stearic acid content of more than 12 wt% based on the total fatty acid content of said oil, and wherein a maximum of 10 wt% of the fatty acid groups in the *sn-2* position of the TAG molecules constituting the oil are saturated fatty acid groups.
- 11. (Withdrawn) Oil as claimed in claim 10, as contained in plant seeds as claimed in claim 1.

12-13. (Canceled)

- 14. (Currently amended) Method for producing a <u>sunflower</u> plant which forms seeds as claimed in claim 1, which method comprises:
- a) providing <u>sunflower</u> seeds which contain [[an]] oil having a stearic acid content of at least 12 wt%;
- b) providing <u>sunflower</u> seeds which contain an oil having an oleic acid content of at least 40 wt% and a thioesterase activity over stearoyl-ACP of at least 10% of the thioesterase activity over oleoyl-ACP;
- c) crossing <u>sunflower</u> plants grown from the <u>sunflower</u> seeds provided in step a) and b);
 - d) harvesting the Fl seed progeny.
- 15. (Currently amended) Method as claimed in claim 14, further comprising the steps of:
 - e) planting the F1 progeny seeds to grow <u>sunflower</u> plants;
 - f) self-pollinating the <u>sunflower</u> plants thus grown to produce F2 seed;

g) testing the seed for the presence of a stearic acid content of at least 12 wt%, an oleic acid content of at least 40 wt% and a thioesterase activity over stearoyl-ACP of at least 10% of the thioesterase activity over oleoyl-ACP;

h) planting sunflower seeds having the desired levels of stearic acid content, oleic acid content and thioesterase activity a stearic acid content of at least 12 wt%, an oleic acid content of at least 40 wt%, and a thioesterase activity over stearoyl-ACP of at least 10% of the thioesterase activity over oleoyl-ACP to grow sunflower plants;

i) self-pollinating the sunflower plants thus grown to produce F3 seed; and

j) optionally repeating steps g), h) and i) until the desired levels of stearic acid content and oleic acid content and the high thioesterase activity stearic acid content of at least 12 wt%, the oleic acid content of at least 40 wt%, and the thioesterase activity over stearoyl-ACP of at least 10% of the thioesterase activity over oleoyl-ACP are fixed.

16. (Currently amended) Method as claimed in claim 14, wherein the seeds which contain [[an]] oil having a stearic acid content of at least 12 wt% are provided by:

a) mutagenic treatment of <u>sunflower</u> seeds having a stearic acid content of less than 12%;

b) producing <u>sunflower</u> plants therefrom which are pollinated to produce seeds;

c) testing the seeds for the desired stearic acid content; and

d) optionally repeating steps b) and c).

17. (Canceled)

18. (Withdrawn) Meal or crushed seeds originating from seeds according to claim 1.

19. (New) Sunflower plants obtained by the method of claim 14.

- 20. (New) Sunflower plants obtained by the method of claim 15.
- 21. (New) Sunflower plants obtained by the method of claim 16.